

# Tobias Kramer

## List of Publications by Year in descending order

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51  
papers

1,469  
citations

430874

18  
h-index

315739

38  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1319  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Ice Composition Close to the Surface of Comet 67P/Churyumov-Gerasimenko. ACS Earth and Space Chemistry, 2022, 6, 1189-1203.	2.7	4
2	Branched flow. Physics Today, 2021, 74, 44-51.	0.3	19
3	Effect of disorder and polarization sequences on two-dimensional spectra of light-harvesting complexes. Photosynthesis Research, 2020, 144, 147-154.	2.9	5
4	The gas production of 14 species from comet 67P/Churyumov-Gerasimenko based on DFMS/COPS data from 2014 to 2016. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3995-4004.	4.4	39
5	Transient capture of electrons in magnetic fields, or: comets in the restricted three-body problem. Journal of Physics: Conference Series, 2020, 1612, 012019.	0.4	0
6	Comet 67P/Churyumov-Gerasimenko rotation changes derived from sublimation-induced torques. Astronomy and Astrophysics, 2019, 630, A3.	5.1	9
7	Outgassing-induced acceleration of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A4.	5.1	15
8	Machine learning of two-dimensional spectroscopic data. Chemical Physics, 2019, 520, 52-60.	1.9	22
9	Dust and gas emission from cometary nuclei: the case of comet 67P/Churyumov-Gerasimenko. Advances in Physics: X, 2018, 3, 1404436.	4.1	8
10	DM-HEOM: A Portable and Scalable Solver-Framework for the Hierarchical Equations of Motion. , 2018, , .		5
11	Energy flow in the Photosystem I supercomplex: Comparison of approximative theories with DM-HEOM. Chemical Physics, 2018, 515, 262-271.	1.9	21
12	Efficient calculation of open quantum system dynamics and time-resolved spectroscopy with distributed memory HEOM (DM-HEOM). Journal of Computational Chemistry, 2018, 39, 1779-1794.	3.3	31
13	Two-dimensional electronic spectra of the photosynthetic apparatus of green sulfur bacteria. Scientific Reports, 2017, 7, 45245.	3.3	13
14	Seasonal changes of the volatile density in the coma and on the surface of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S20-S28.	4.4	33
15	Modeling of Transient Absorption Spectra in Exciton-Charge-Transfer Systems. Journal of Physical Chemistry B, 2017, 121, 463-470.	2.6	15
16	Thermal energy and charge currents in multi-terminal nanorings. AIP Advances, 2016, 6, 065306.	1.3	2
17	Challenges facing an understanding of the nature of low-energy excited states in photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 1627-1640.	1.0	74
18	ON THE ORIGIN OF INNER COMA STRUCTURES OBSERVED BY ROSETTA DURING A DIURNAL ROTATION OF COMET 67P/CHURYUMOV-GERASIMENKO. Astrophysical Journal Letters, 2016, 823, L11.	8.3	16

#	ARTICLE	IF	CITATIONS
19	Interacting electrons in a magnetic field in a center-of-mass free basis. <i>Physica Scripta</i> , 2015, 90, 074014.	2.5	4
20	PREVAILING DUST-TRANSPORT DIRECTIONS ON COMET 67P/CHURYUMOVâ€“GERASIMENKO. <i>Astrophysical Journal Letters</i> , 2015, 813, L33.	8.3	18
21	Exact stochastic unraveling of an optical coherence dynamics by cumulant expansion. <i>Journal of Chemical Physics</i> , 2014, 141, 164109.	3.0	15
22	Scalable High-Performance Algorithm for the Simulation of Exciton Dynamics. Application to the Light-Harvesting Complex II in the Presence of Resonant Vibrational Modes. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4045-4054.	5.3	103
23	Modelling excitonic-energy transfer in light-harvesting complexes. , 2014, , .		8
24	Disentangling Electronic and Vibronic Coherences in Two-Dimensional Echo Spectra. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9380-9385.	2.6	55
25	Interacting electrons in a magnetic field: Mapping quantum mechanics to a classical ersatz-system. , 2012, , .		1
26	Long-Lived Electronic Coherence in Dissipative Exciton Dynamics of Light-Harvesting Complexes. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2828-2833.	4.6	203
27	Modelling of oscillations in two-dimensional echo-spectra of the Fennaâ€“Matthewsâ€“Olson complex. <i>New Journal of Physics</i> , 2012, 14, 023018.	2.9	108
28	High-Performance Solution of Hierarchical Equations of Motion for Studying Energy Transfer in Light-Harvesting Complexes. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 2166-2174.	5.3	153
29	Spectra of harmonium in a magnetic field using an initial value representation of the semiclassical propagator. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 445309.	2.1	10
30	Time-dependent approach to transport and scattering in atomic and mesoscopic physics. , 2011, , .		6
31	Fluctuations in the spectra of open few-body systems. <i>New Journal of Physics</i> , 2011, 13, 063033.	2.9	1
32	Comment on â€œScreening model of metallic nonideal contacts in the integer quantized Hall regimeâ€•. <i>Physical Review B</i> , 2011, 84, .	3.2	0
33	Wave packet approach to transport in mesoscopic systems. <i>Physica Scripta</i> , 2010, 82, 038101.	2.5	18
34	Theory of the quantum Hall effect in finite graphene devices. <i>Physical Review B</i> , 2010, 81, .	3.2	13
35	Self-consistent calculation of electric potentials in Hall devices. <i>Physical Review B</i> , 2010, 81, .	3.2	14
36	Two interacting electrons in a magnetic field: comparison of semiclassical, quantum, and variational solutions. , 2010, , .		6

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37	Phase shifts and phase $\pi$ jumps in four-terminal waveguide Aharonov-Bohm interferometers. Physical Review B, 2010, 82, .	3.2	18
38	Revivals of quantum wave packets in graphene. New Journal of Physics, 2009, 11, 093010.	2.9	56
39	Use of Lambert's theorem for then-dimensional Coulomb problem. Physical Review A, 2009, 80, .	2.5	5
40	The 395th Wilhelm and Else Heraeus Seminar: 'Time-dependent phenomena in Quantum Mechanics'. Journal of Physics: Conference Series, 2008, 99, 011001.	0.4	0
41	Imaging magnetic focusing of coherent electron waves. Nature Physics, 2007, 3, 464-468.	16.7	135
42	Electron dynamics in parallel electric and magnetic fields. Physical Review A, 2006, 73, .	2.5	44
43	Quantum theory of an atom laser originating from a Bose-Einstein condensate or a Fermi gas in the presence of gravity. Physical Review A, 2006, 74, .	2.5	14
44	A HEURISTIC QUANTUM THEORY OF THE INTEGER QUANTUM HALL EFFECT. International Journal of Modern Physics B, 2006, 20, 1243-1260.	2.0	11
45	The photoelectric effect in external fields. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 62-66.	2.1	19
46	Tunnelling out of a time-dependent well. Journal of Physics A, 2005, 38, 5993-6003.	1.6	6
47	Aid workers fear impending disaster in Basra. Nature, 2003, 422, 459-459.	27.8	0
48	Making the move from physics to finance. Nature, 2003, 425, 220-221.	27.8	0
49	Observed photodetachment in parallel electric and magnetic fields. Physical Review A, 2003, 68, .	2.5	25
50	Ballistic matter waves with angular momentum: Exact solutions and applications. Physical Review A, 2003, 67, .	2.5	34
51	Surface localization of gas sources on comet 67P/Churyumov-Gerasimenko based on DFMS/COPS data. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	33